

Fig.2

(a)

ORGANIZATION TABLE

ORGANIZATION NAME
0 TOKYO HEAD OFFICE
1 OSAKA BRANCH OFFICE
2 NAGOYA OFFICE

(TABLE #0)

(b)

EMPLOYEE ASSIGNMENT TABLE

POST	S NAME
0 TOKYO HEAD OFFICE	MR./MS.A
1 OSAKA BRANCH OFFICE	MR./MS.D
2 NAGOYA OFFICE	MR./MS.C
3 TOKYO HEAD OFFICE	MR./MS.B
4 TOKYO HEAD OFFICE	MR./MS.F
5 OSAKA BRANCH OFFICE	MR./MS.E

(TABLE #1)

201

ORGANIZATION TABLE

ORGANIZATION NAME
PVL
0 1
1 0
2 2
VL
0 OSAKA BRANCH OFFICE
1 TOKYO HEAD OFFICE
2 NAGOYA OFFICE

202

203

211

EMPLOYEE ASSIGNMENT TABLE

POST	S NAME
PVL	VL
0 1	0 MR./MS.A
1 0	1 MR./MS.B
2 2	2 MR./MS.C
3 1	3 MR./MS.D
4 1	4 MR./MS.E
5 0	5 MR./MS.F

212

213

221

222

223

Fig.3

EMPLOYEE CAREER TABLE

	R NAME	PROJECT
0	MR./MS.A	Prj-1
1	MR./MS.D	Prj-1
2	MR./MS.E	Prj-1
3	MR./MS.B	Prj-2
4	MR./MS.C	Prj-2
5	MR./MS.F	Prj-3
6	MR./MS.D	Prj-3
7	MR./MS.A	Prj-4
8	MR./MS.B	Prj-4

(TABLE #2)

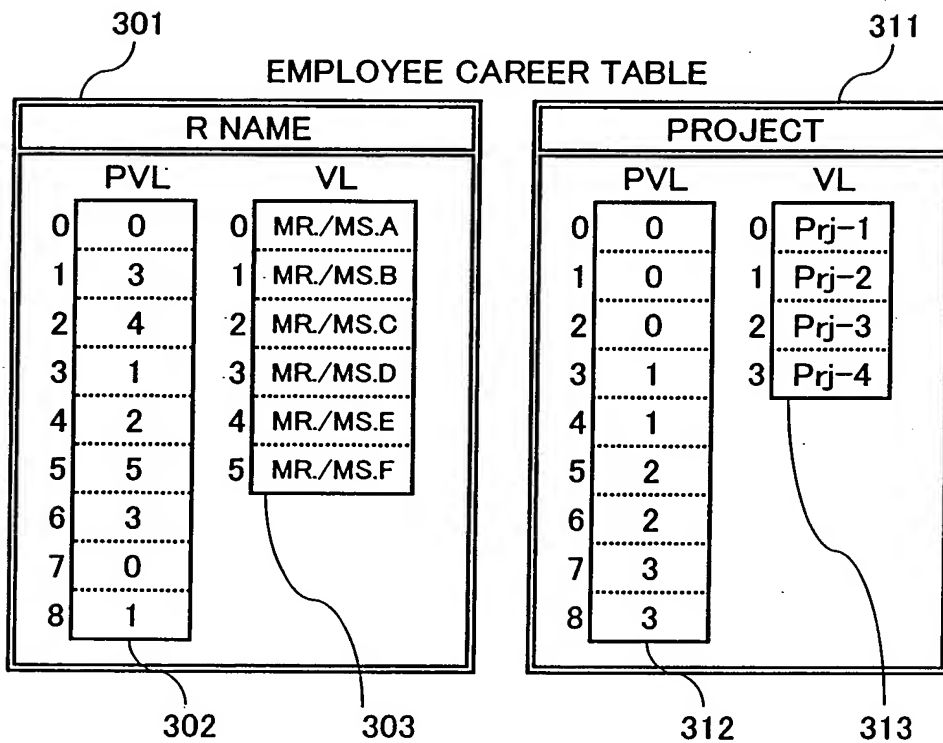


Fig.4

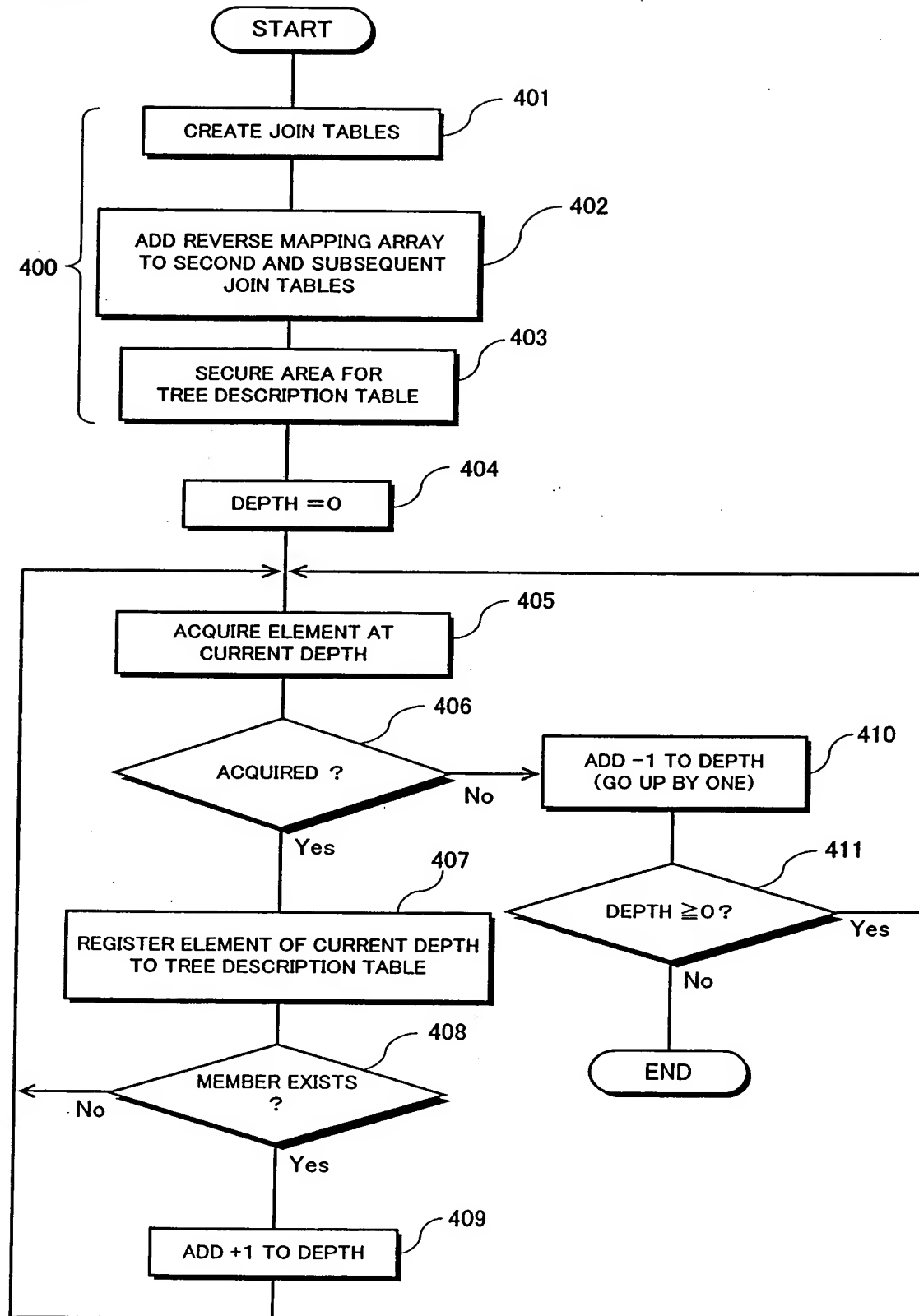


Fig.5

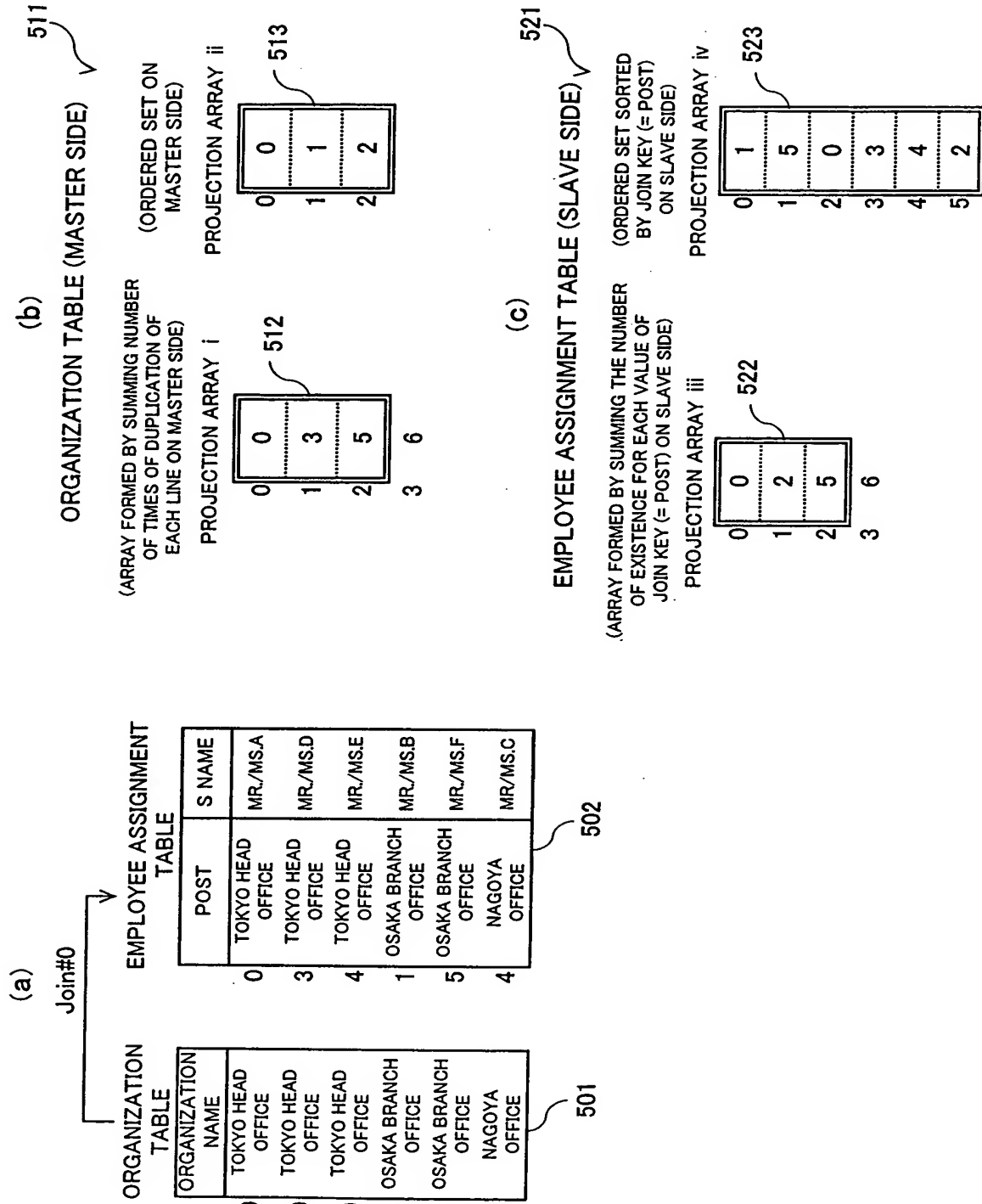
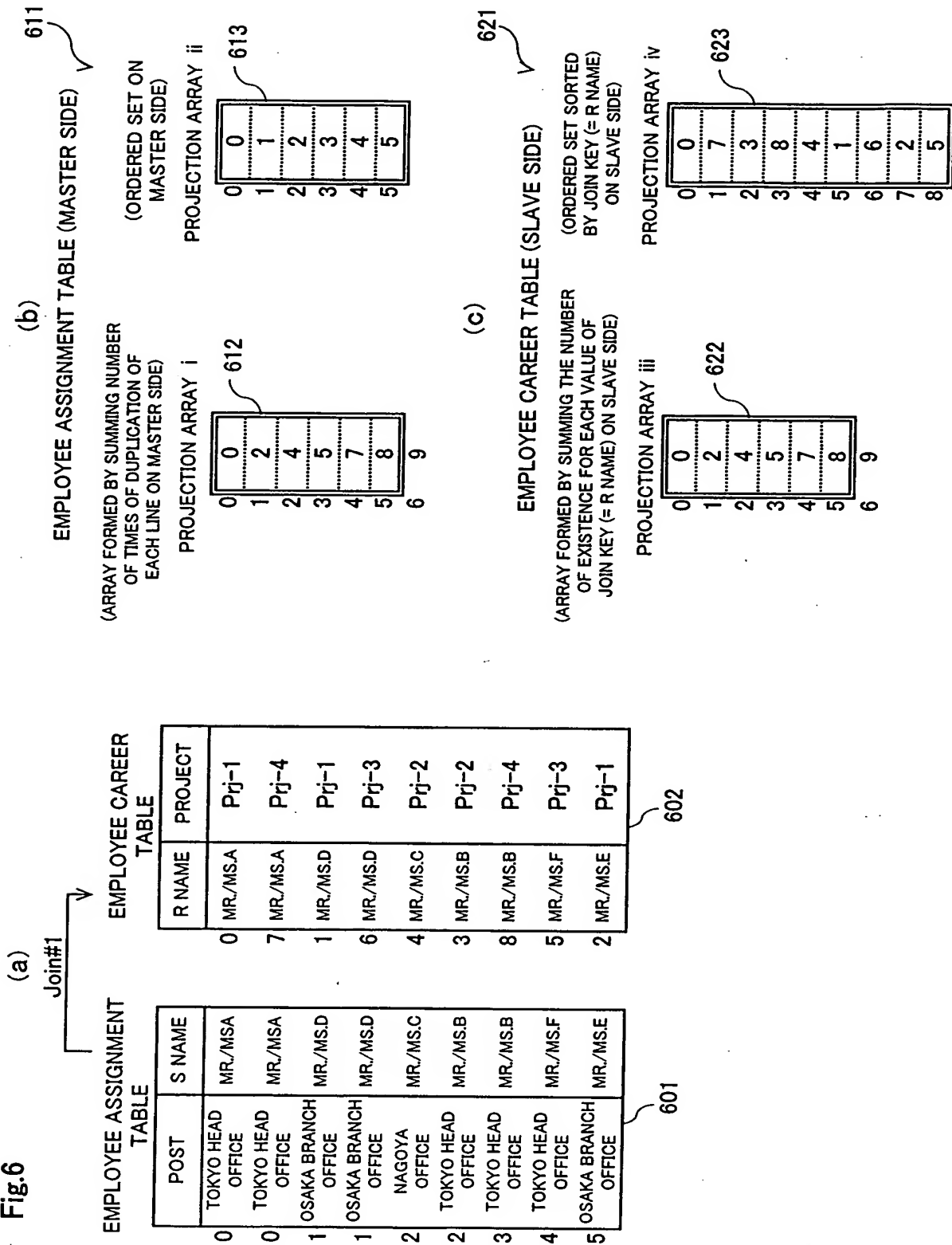


Fig.6



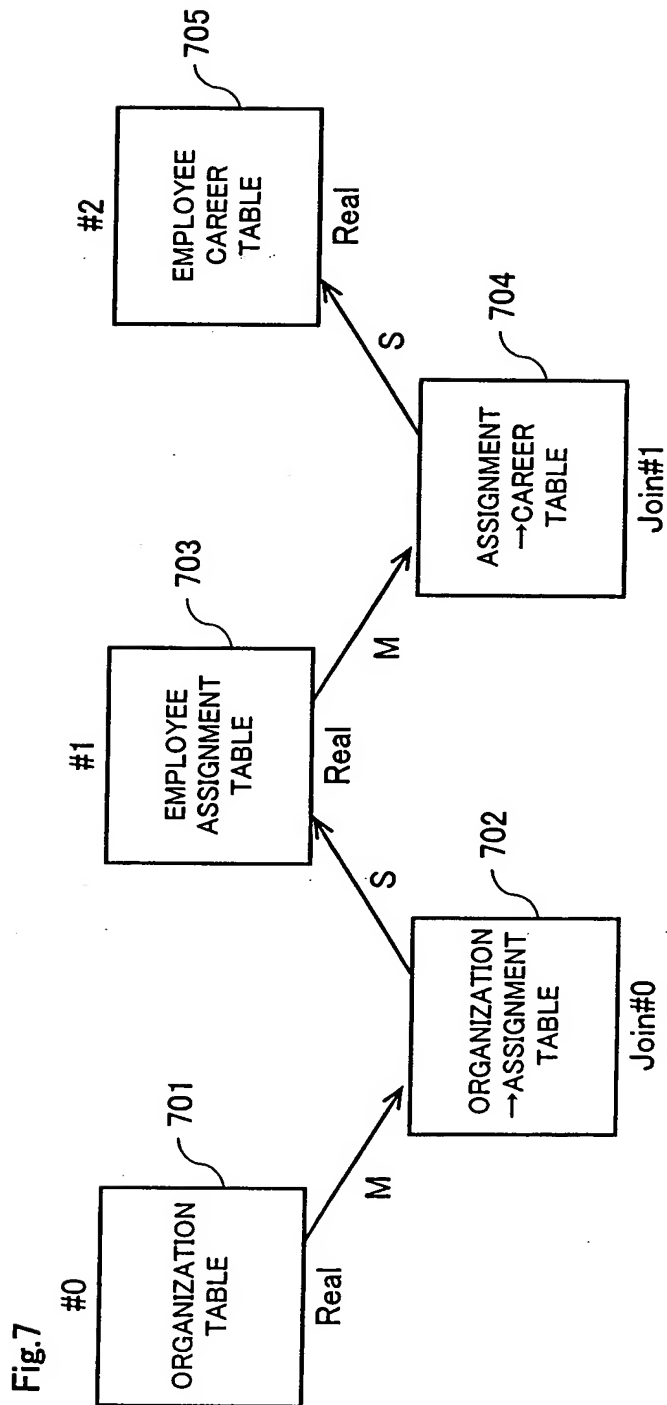


Fig.10

900
✓

Depth	Rec No	
0	0	← 1000
1	0	← 1001
2	0	← 1002
2	7	← 1003
1	3	← 1004
2	3	← 1005
2	8	← 1006
1	4	← 1007
2	5	← 1008
0	1	← 1009
1	1	← 1010
2	1	← 1011
2	6	← 1012
1	5	← 1013
2	2	← 1014
0	2	← 1015
1	2	← 1016
2	4	← 1017

Fig.11

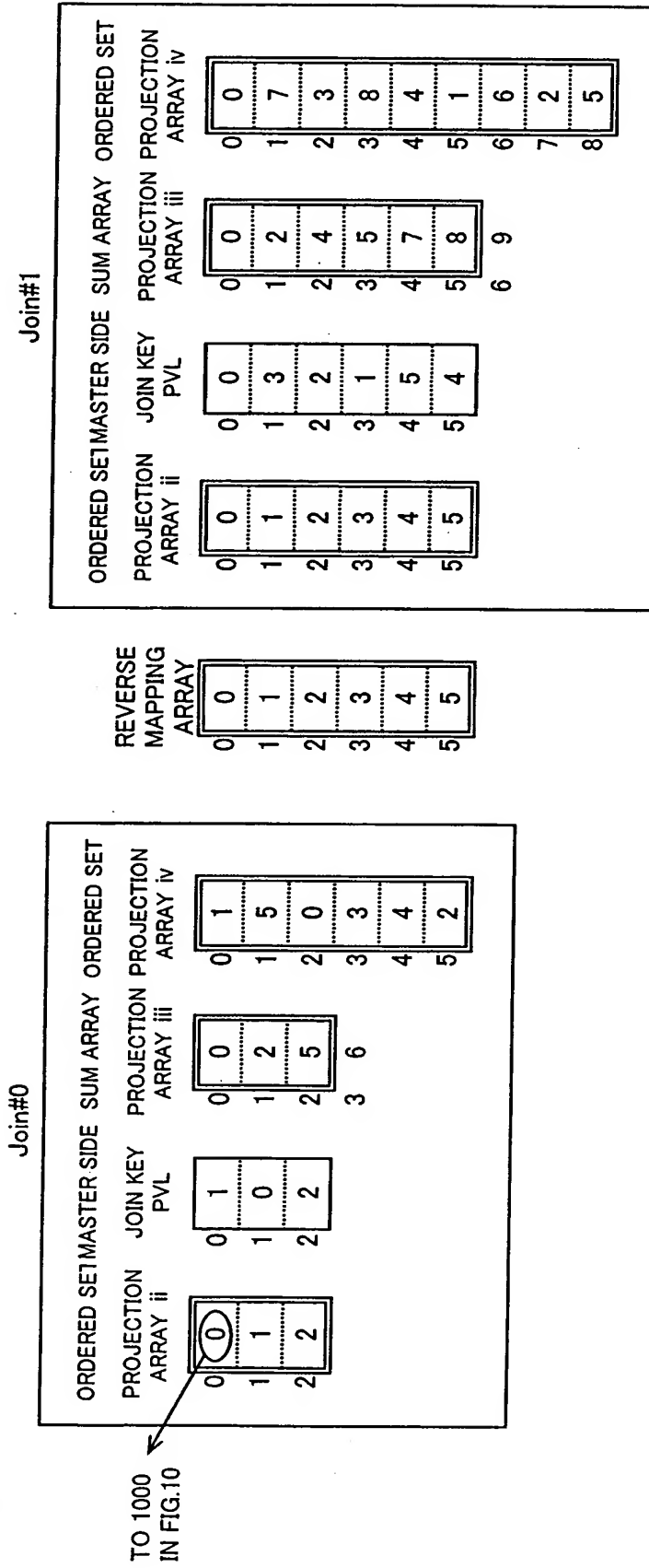


Fig.12

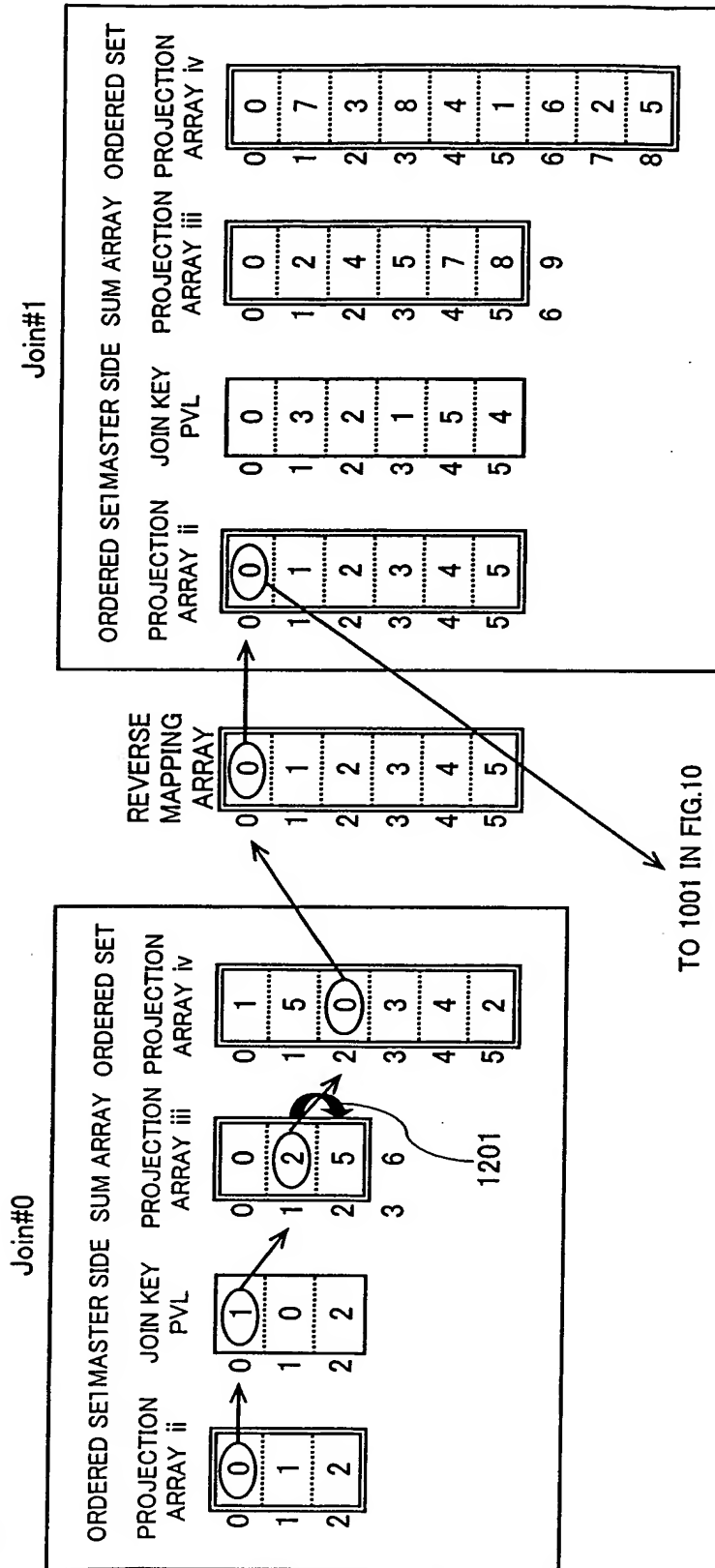


Fig.13

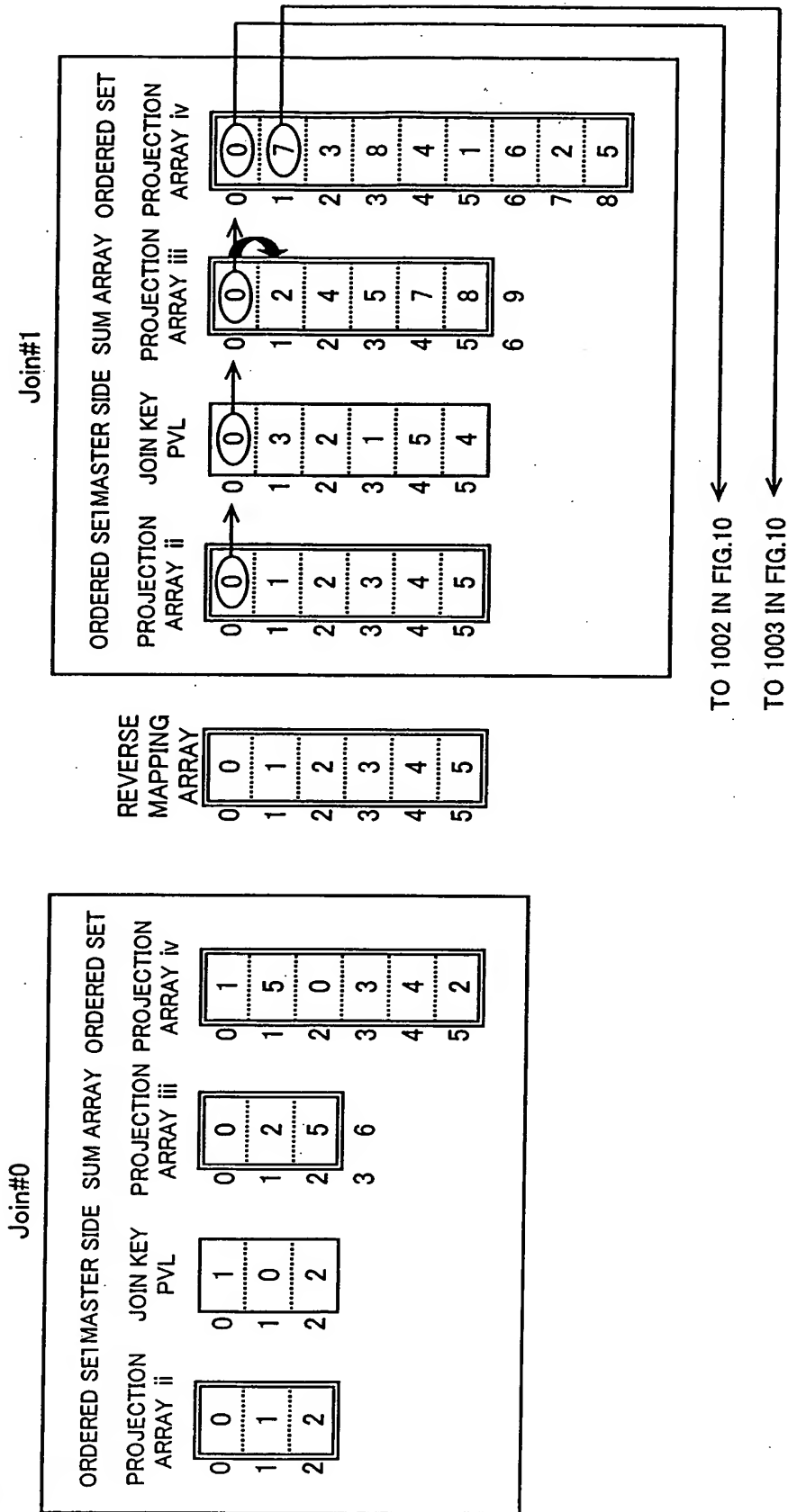


Fig.14

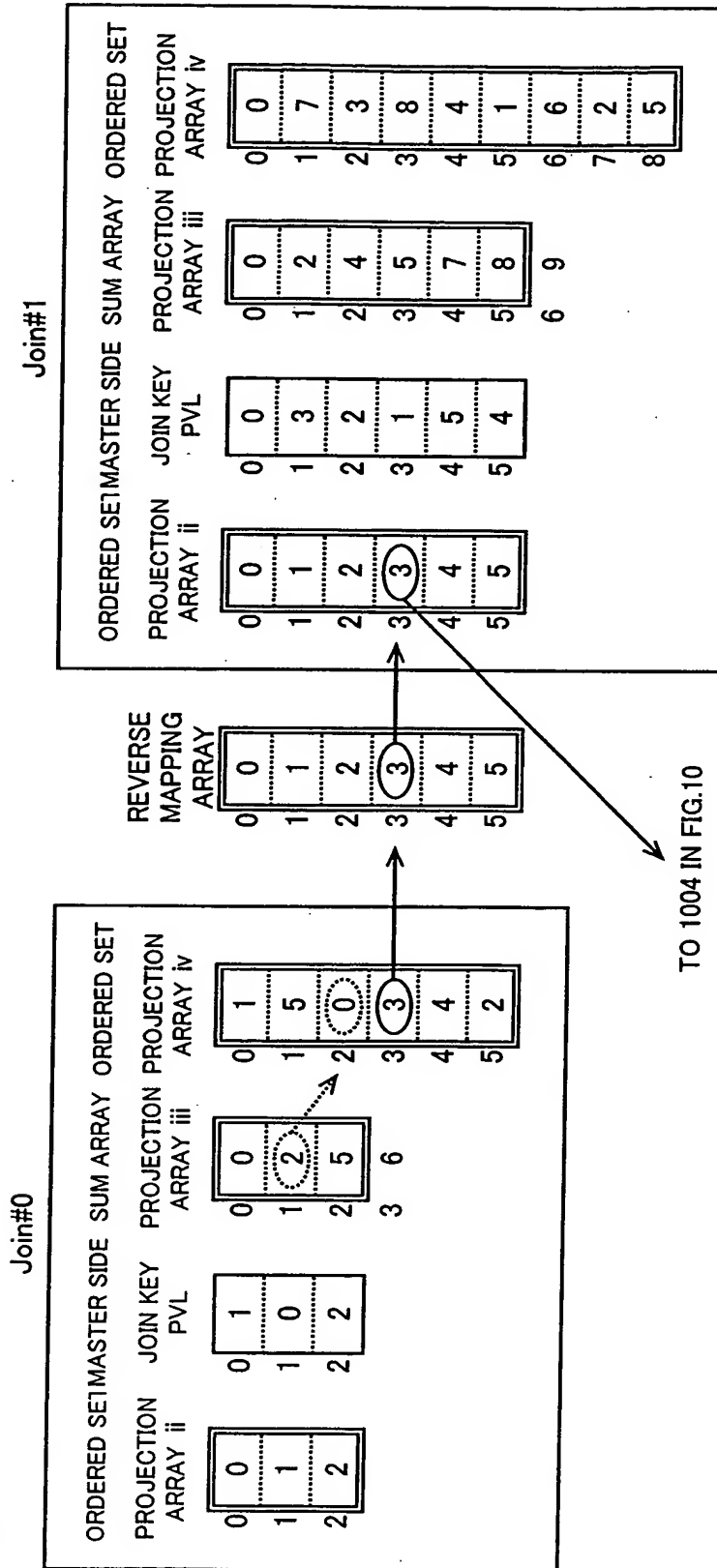


Fig.15

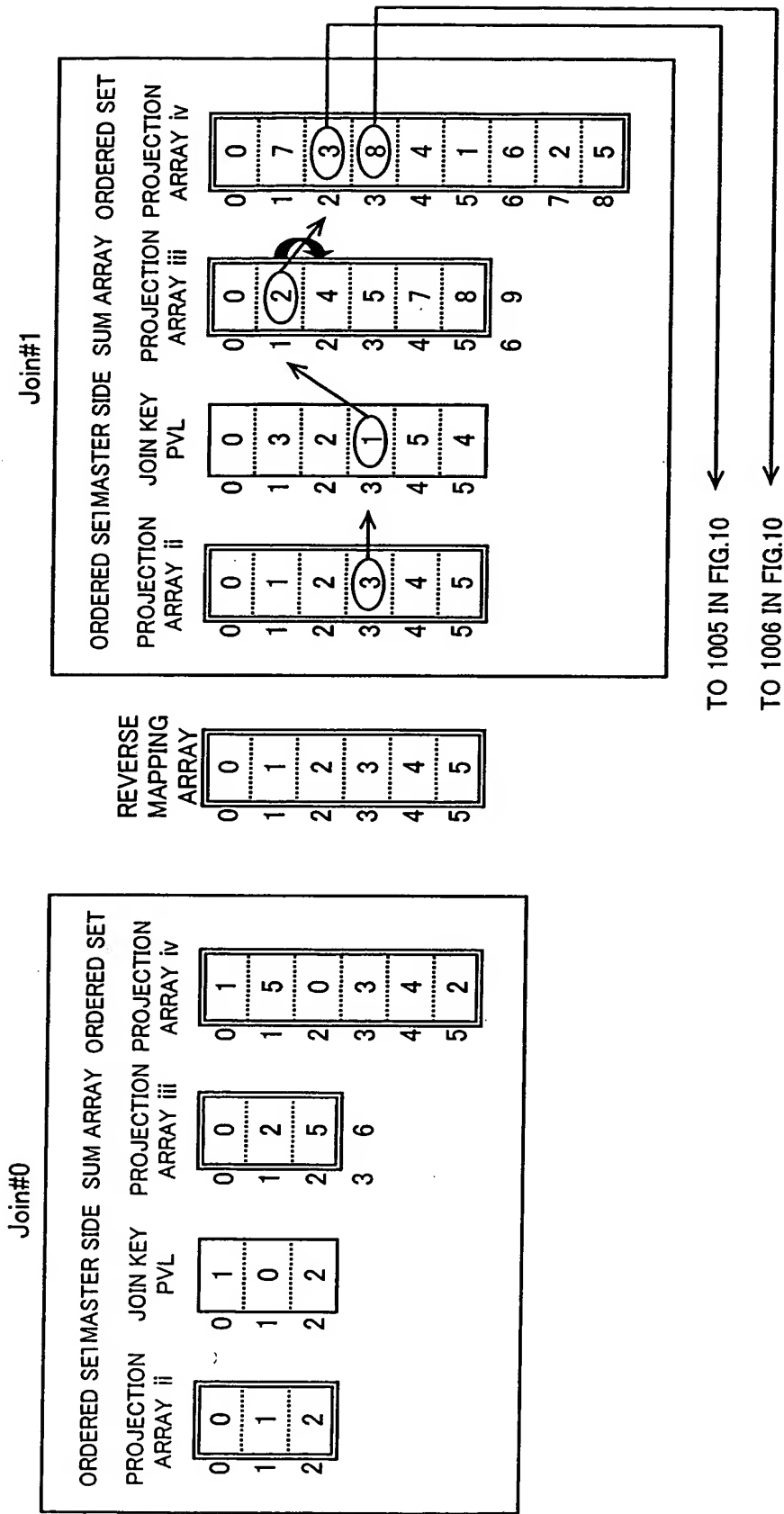


Fig.16

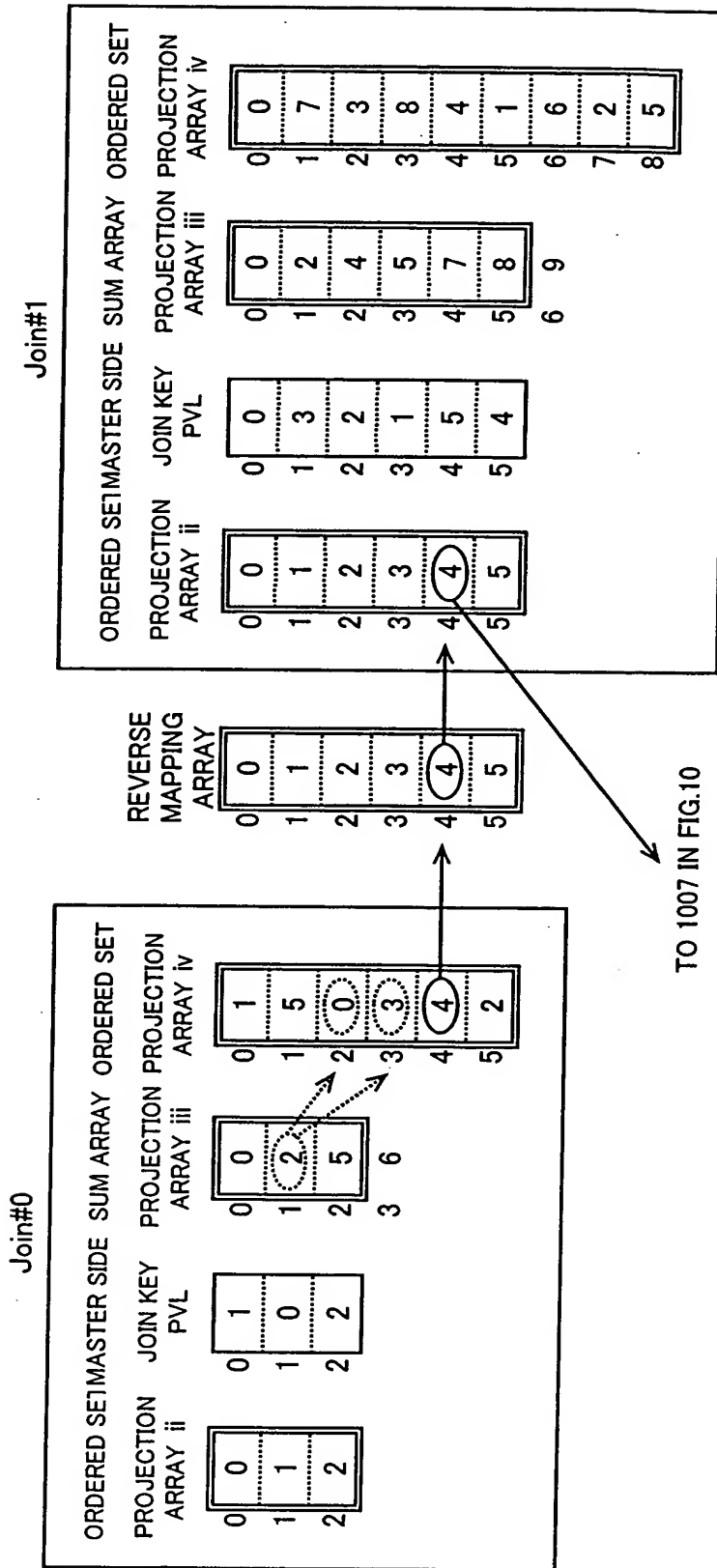


Fig.17

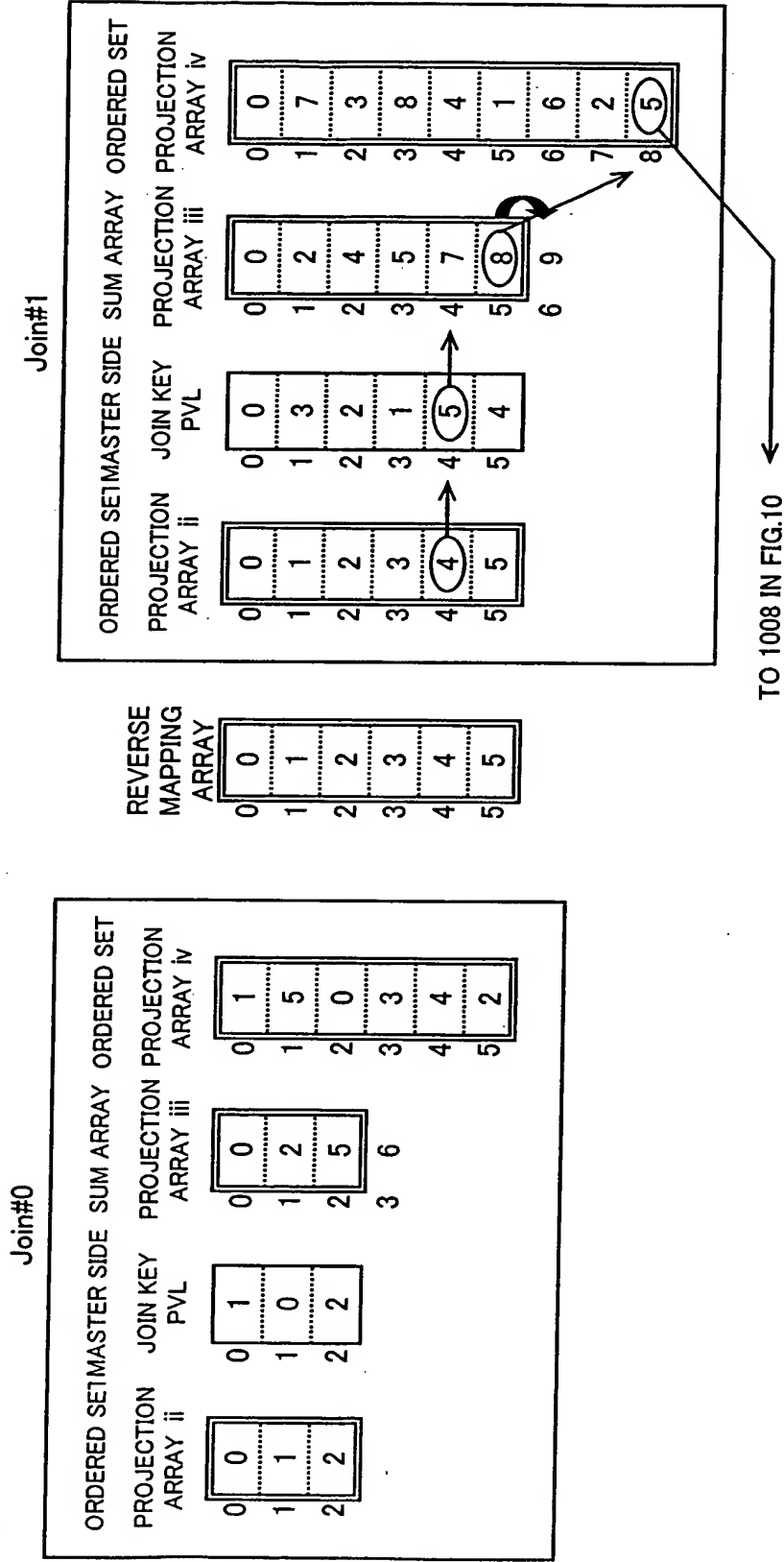


Fig.18

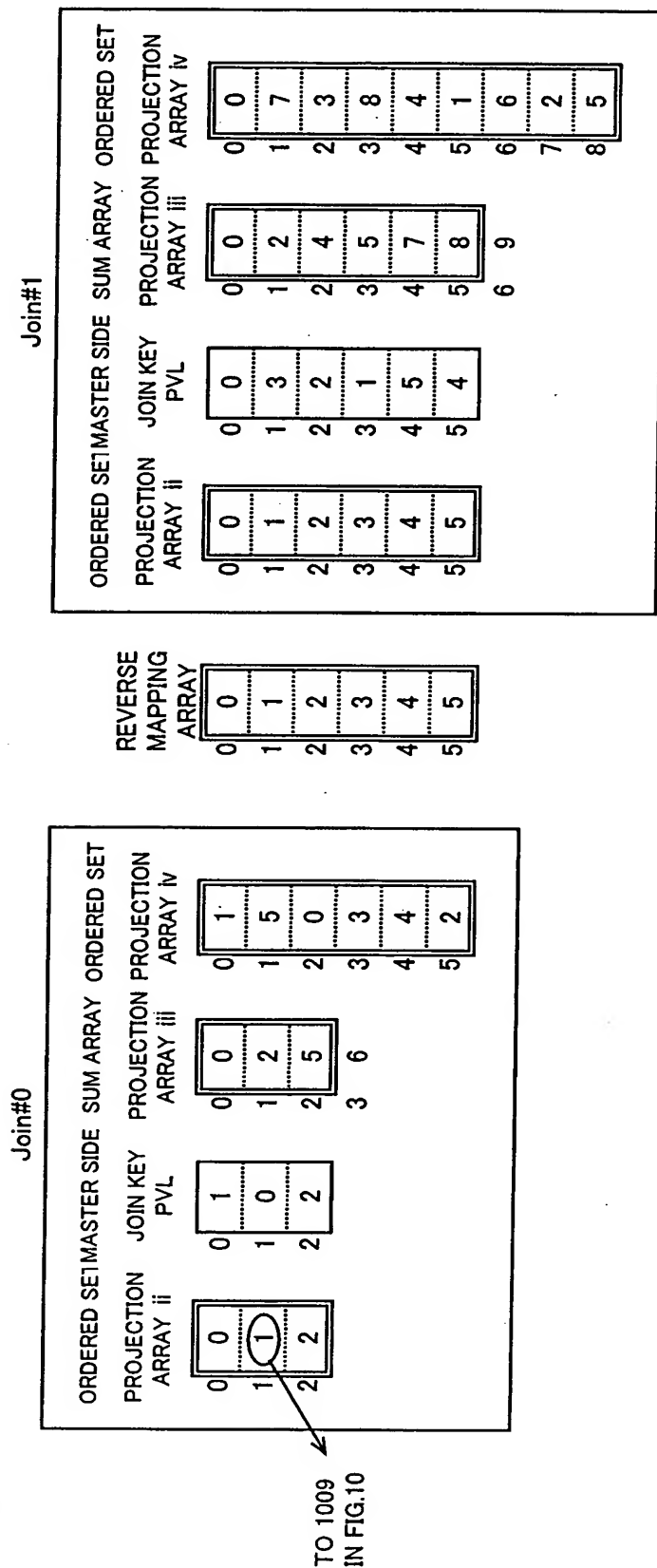


Fig.19

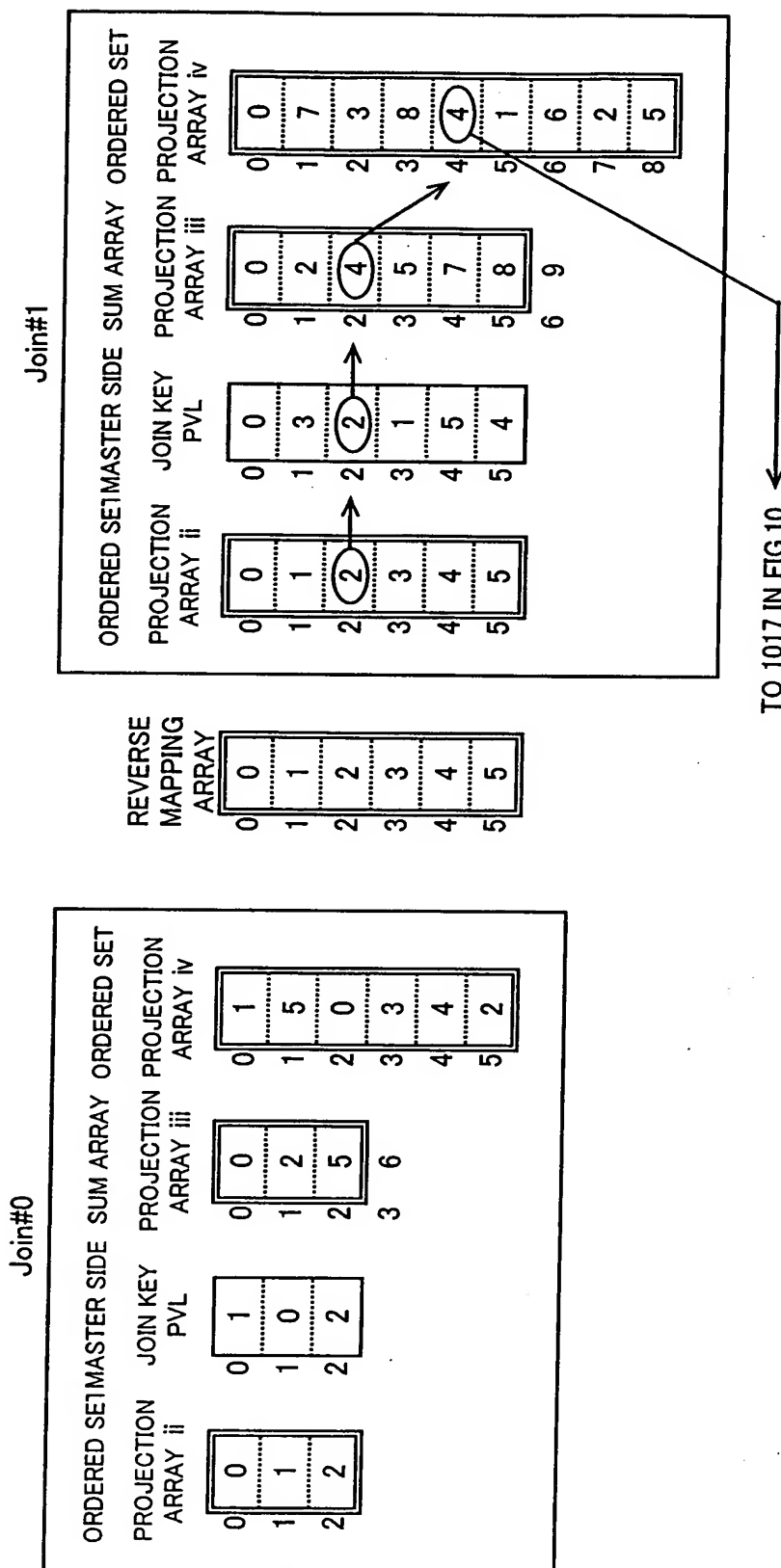


Fig.20

TREE DESCRIPTION
TABLE

Depth	Rec No
0	0
1	0
2	0
2	7
1	3
2	3
2	8
1	4
2	5
0	1
1	1
2	1
2	6
1	5
2	2
0	2
1	2
2	4

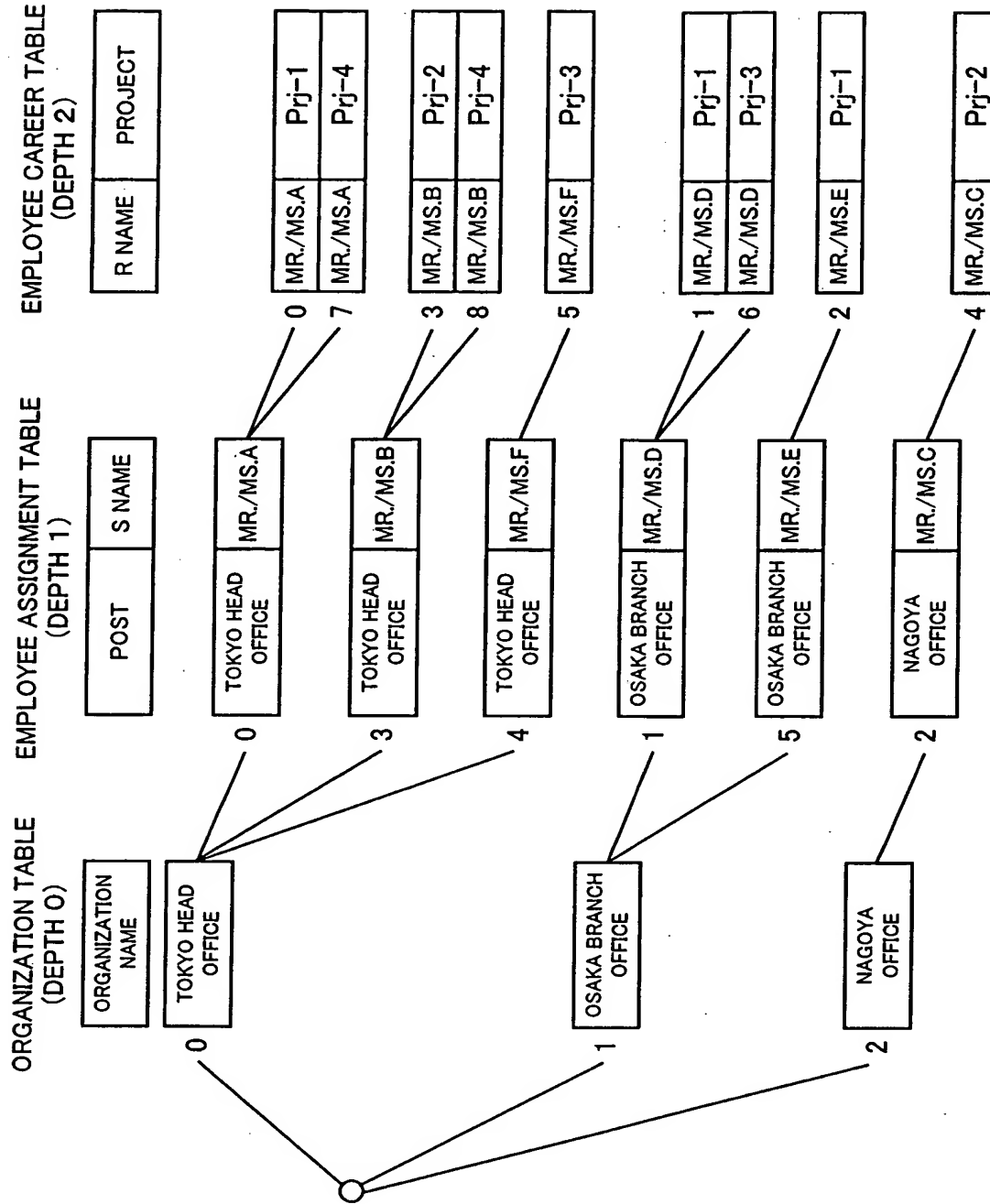


Fig.21

ORGANIZATION TABLE

ORGANIZATION NAME	
TOKYO HEAD OFFICE	0
OSAKA BRANCH OFFICE	1
NAGOYA OFFICE	2

(TABLE #0)

WHOLE SET
WITHOUT
SORTING

0	1
1	0
2	2

2101

ORGANIZATION NAME	
PVL	VL
0 1	0 OSAKA BRANCH OFFICE
1 0	1 TOKYO HEAD OFFICE
2 2	2 NAGOYA OFFICE

201

Fig.22
EMPLOYEE ASSIGNMENT
TABLE

	POST	S NAME
0	TOKYO HEAD OFFICE	MR./MS.A
1	OSAKA BRANCH OFFICE	MR./MS.D
2	NAGOYA OFFICE	MR./MS.C
3	TOKYO HEAD OFFICE	MR./MS.B
4	TOKYO HEAD OFFICE	MR./MS.F
5	OSAKA BRANCH OFFICE	MR./MS.E

(TABLE #1)

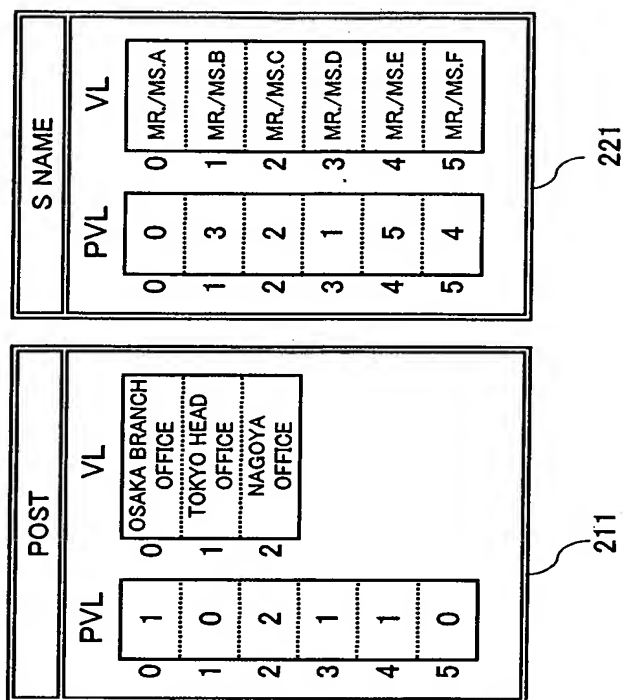
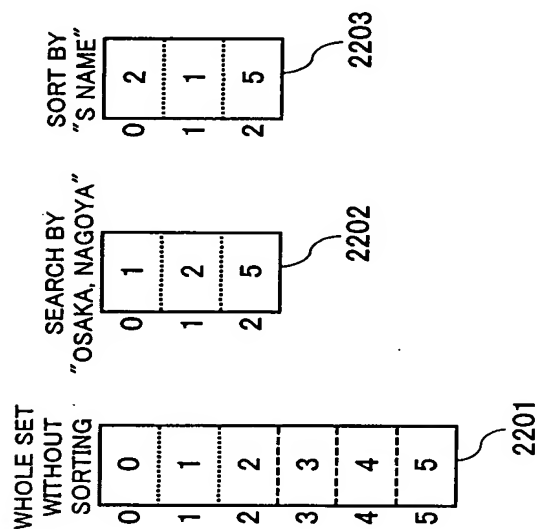


Fig.23

EMPLOYEE CAREER TABLE

R NAME	PROJECT
0 MR./MSA	Prj-1
1 MR./MSD	Prj-1
2 MR./MSE	Prj-1
3 MR./MSB	Prj-2
4 MR./MSC	Prj-2
5 MR./MSF	Prj-3
6 MR./MSD	Prj-3
7 MR./MSA	Prj-4
8 MR./MSB	Prj-4

(TABLE #2)

WHOLE SET
WITHOUT
SORTING

0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8

2301

R NAME	
PVL	VL
0	0 MR./MSA
1	3 MR./MSB
2	4 MR./MSC
3	1 MR./MSD
4	2 MR./MSE
5	5 MR./MSF
6	3
7	0
8	1

301

PROJECT	
PVL	VL
0	0 Prj-1
1	0 Prj-2
2	0 Prj-3
3	1 Prj-4
4	1
5	2
6	2
7	3
8	3

311

Fig.24

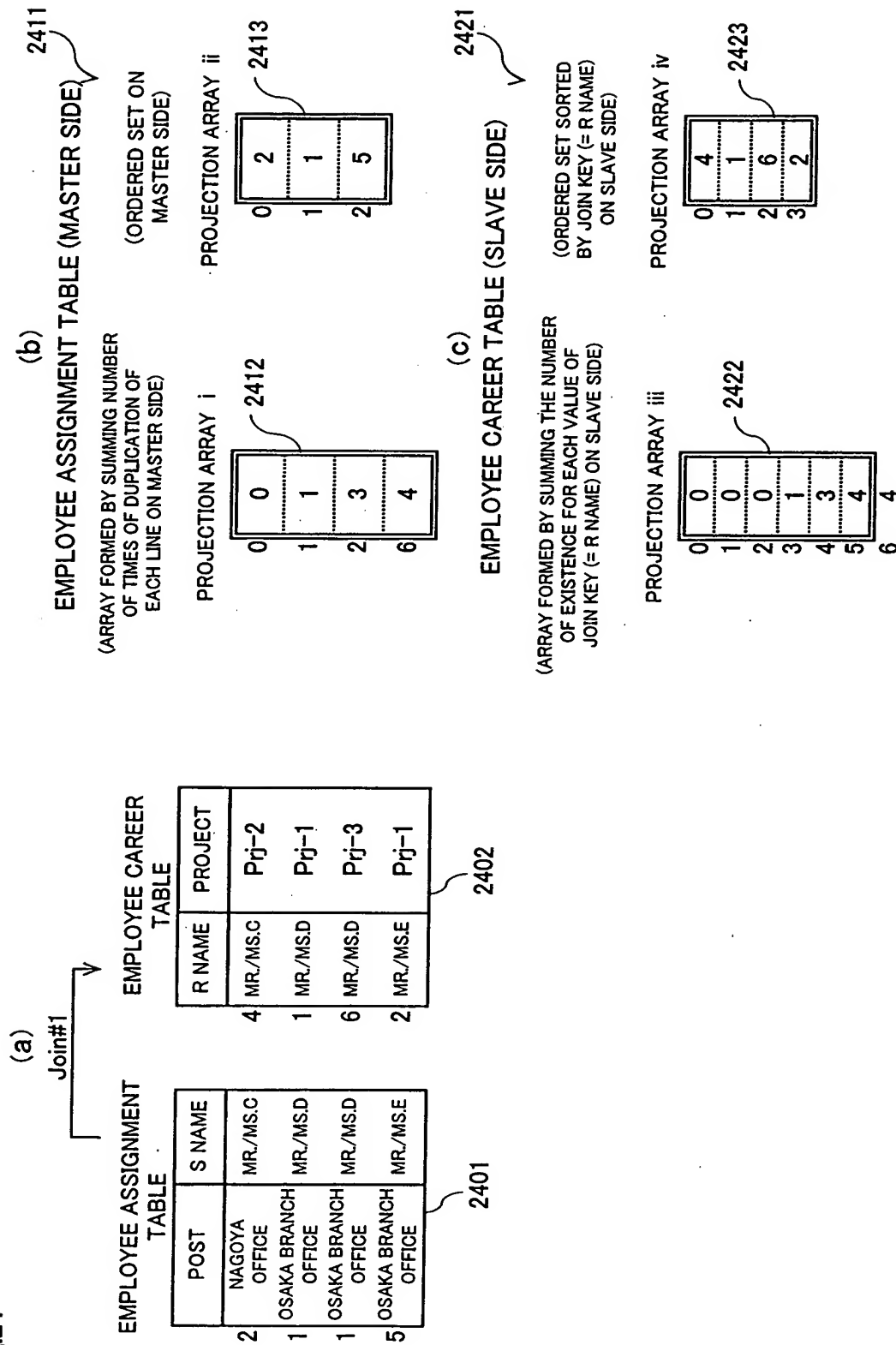


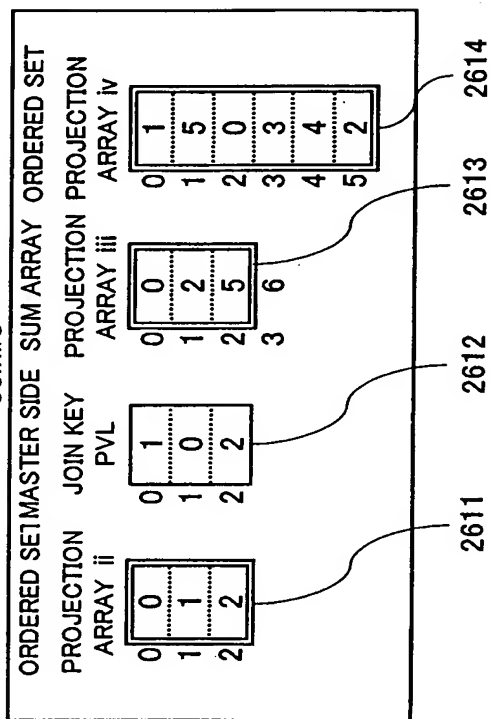
Fig.26

TREE DESCRIPTION TABLE

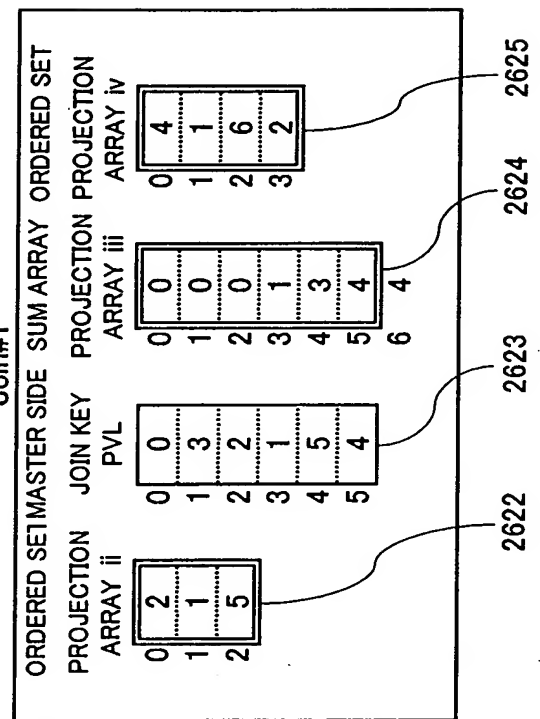
Depth	Rec No

2600

Join#0



Join#1



REVERSE MAPPING ARRAY

0	-1
1	1
2	0
3	-1
4	-1
5	2

2621

Fig.27

2600
✓

Depth	Rec No	
0	0	← 2700
0	1	← 2701
1	1	← 2702
2	1	← 2703
2	6	← 2704
1	5	← 2705
2	2	← 2706
0	2	← 2707
1	2	← 2708
2	4	← 2709

Fig.28

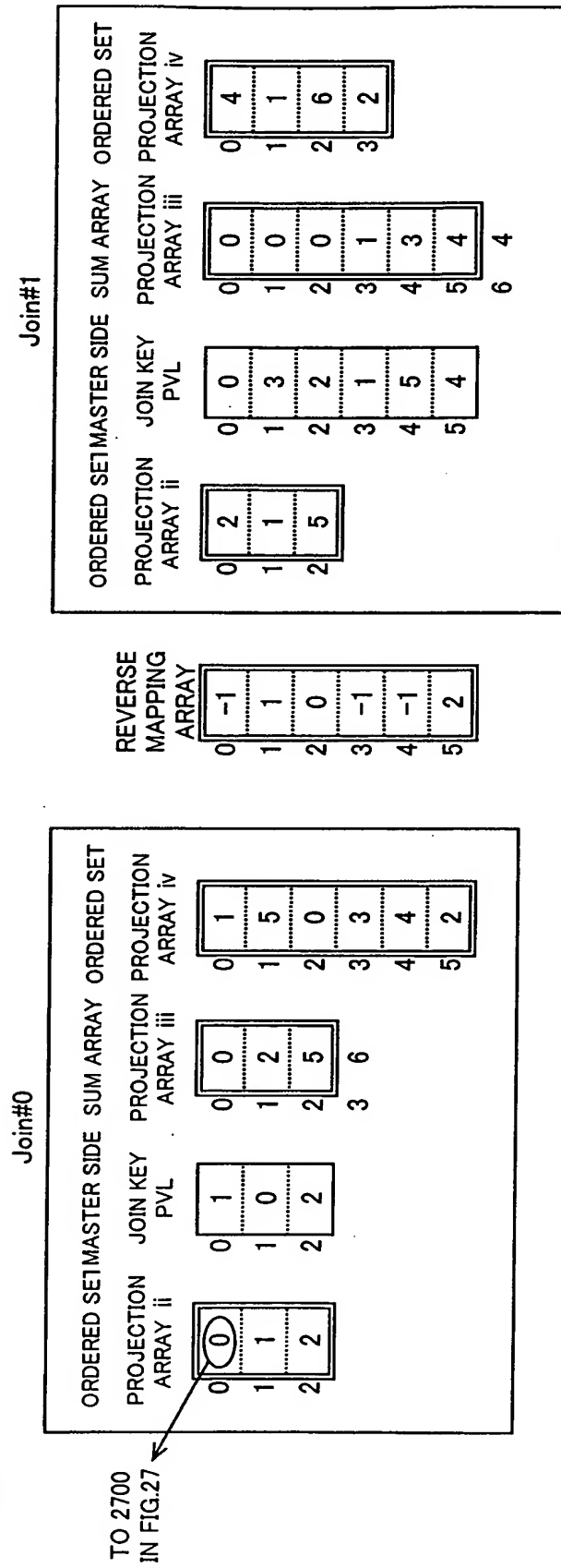


Fig.29

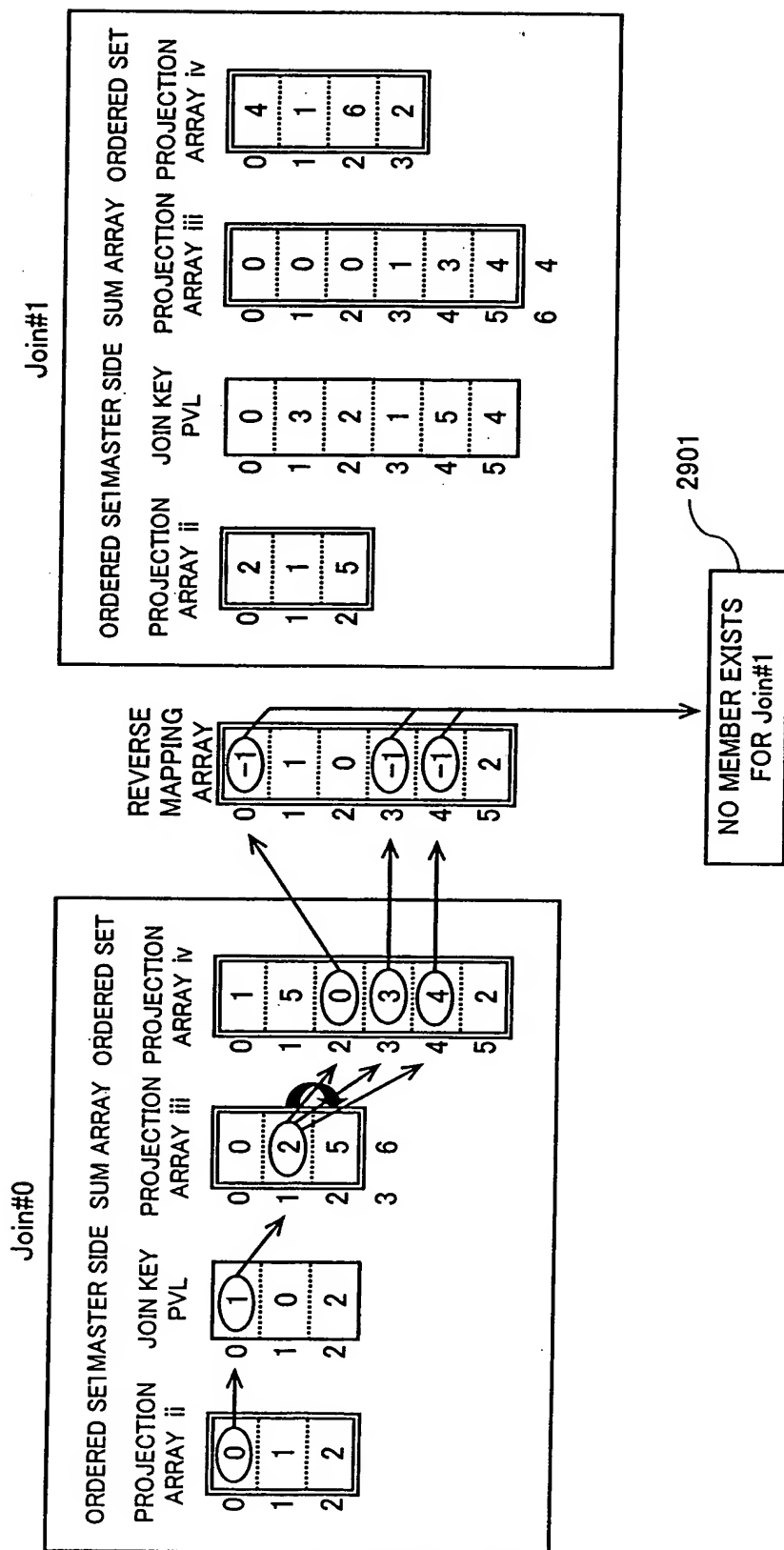


Fig.30

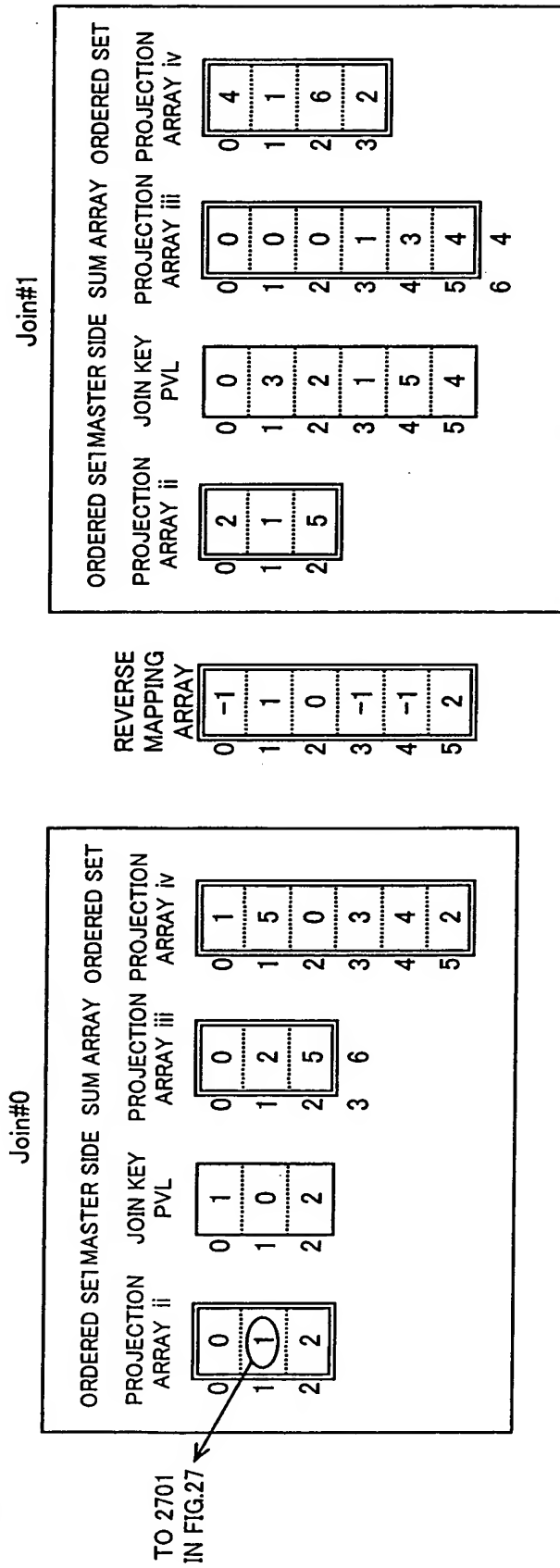


Fig.31

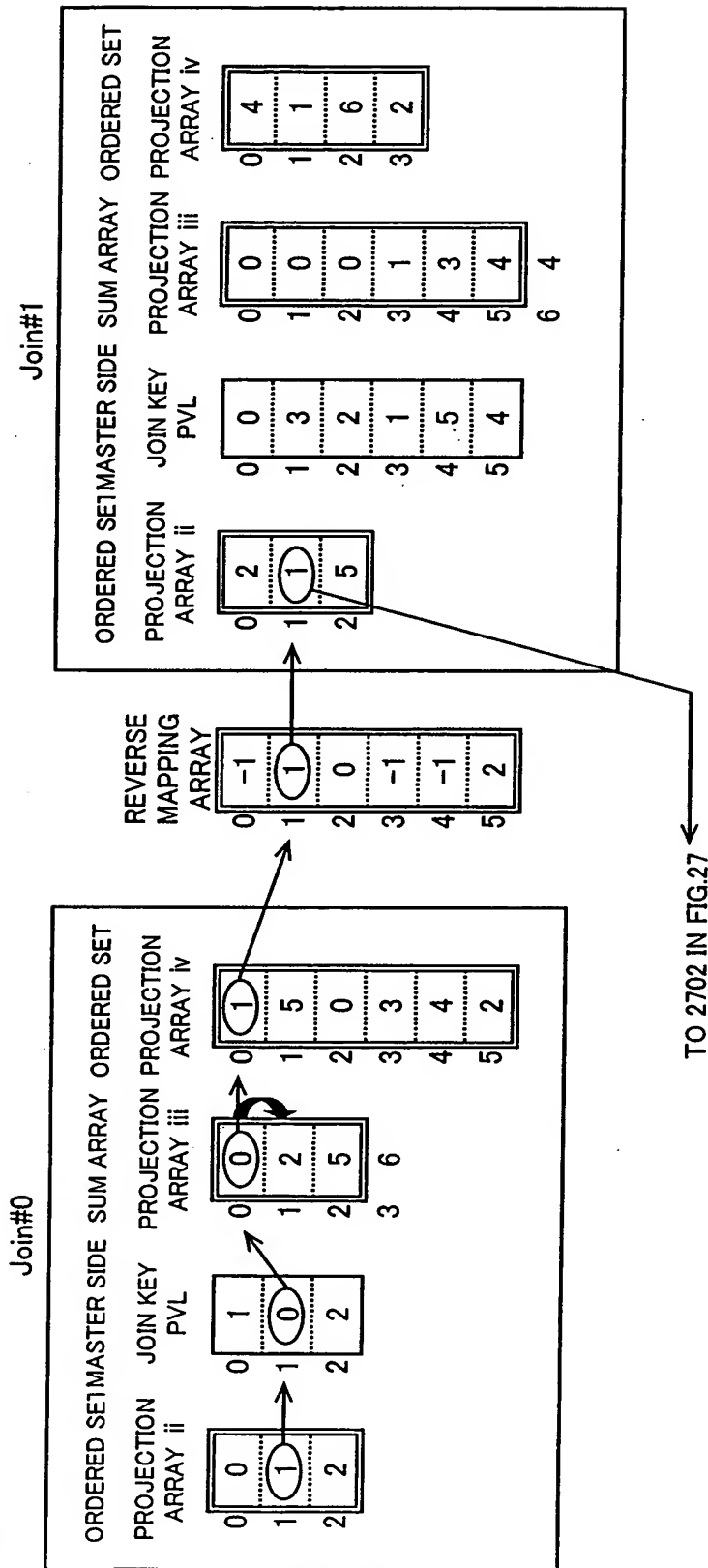


Fig.32

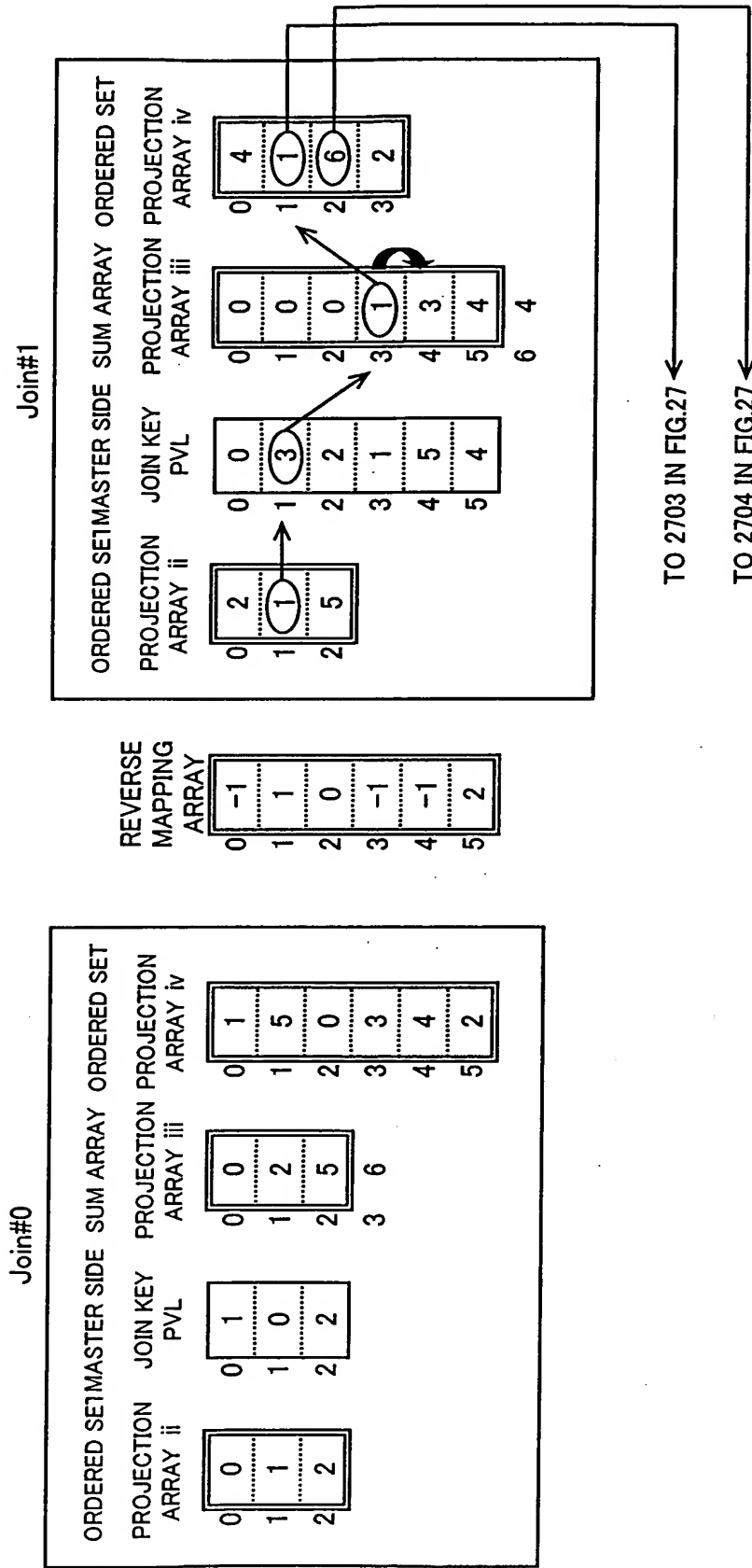


Fig.33

TREE DESCRIPTION TABLE	
Depth	Rec No
0	0
0	1
1	1
2	1
2	6
1	5
2	2
0	2
1	2
2	4

2600

